

New York Oct 18th. 1854

Prof J. C. Booth

Dear Sir

I have to trouble you again with a few Enquiries, the statements of the men are so at variance with what I learned at the Mint that I am somewhat puzzled.

Queries

How much NO_5 to each pound of granulated metal?
How much SO_5 and In to a filler of Chloride?

How much salt for a charge of twenty fols? (150ths oz)

If the quantities required by theory & practice were the same I should not have to trouble you
With great regard
Yrs friend
Clarence Morfit.

W. \$1,000,000 Cala Gold

20 @ 25,000 ~~40~~ 500,000

2 tons Zinc

120 bushels Salt Turks Island

about $1\frac{1}{2}$ @ $1\frac{3}{4}$ tons bil of nitriol

50000
<u>067</u>
324000
<u>463</u>
3703
4500

Av. Fr

¹⁸⁵⁴
 25,000 \$ ~~Est. 1854~~
 12) 54,000 oz. ~~California~~ ^{California} ~~Refin~~
 4500 \$ an New York
 13,500 \$ (amt 2 lg)

$$\begin{array}{r}
 135 : 250 :: 1 \\
 \# \quad 250 \quad (1.86) \\
 \quad 135 \\
 \hline
 \quad 1150 \\
 \quad 1080 \\
 \hline
 \quad 700 \\
 \quad 575 \\
 \hline
 \quad 1250
 \end{array}$$

221

$$\begin{array}{r}
 135 \quad 200 \quad (1.48) \\
 \quad 135 \\
 \hline
 \quad 650 \\
 \quad 540 \\
 \hline
 \quad 1100 \\
 \quad 1080 \\
 \hline
 \quad 200
 \end{array}
 \qquad
 \begin{array}{r}
 1.86 \\
 1.48 \\
 \hline
 3.34 \\
 \hline
 1.67
 \end{array}$$

to 1st granulations

1.86 \$ 205

1.48 — " —

1 $\frac{2}{3}$ — " — average

2 tons zinc pr. \$ million gold

34 x 2 = 68 bushels pr. $\frac{1}{2}$ mill^m
 136 " " \$ mill^m